

# Sodium dihydrogen phosphate dihydrate, for analysis, ExpertQ®, Reag. Ph Eur

## Identification

NaH<sub>2</sub>PO<sub>4</sub>·2H<sub>2</sub>O  
M = 156,01 g/mol  
CAS [13472-35-0]  
EC number: 231-449-2  
Taric code: 2835 22 00

## Synonyms

Sodium biphosphate, Monosodium orthophosphate, Primary sodium phosphate, Sodium phosphate monobasic

## Applications

analytical chemistry, laboratory reagent, for pharmaceuticals synthesizing, in food industry (E 339).

## Specifications

|                                                    |                      |                              |               |
|----------------------------------------------------|----------------------|------------------------------|---------------|
| assay (acidimetric, referred to dried sample)..... | 98,0 - 100,5 %       | cobalt (Co).....             | max. 0,005 %  |
| identity.....                                      | passes test          | copper (Cu).....             | max. 0,005 %  |
| appearance of solution.....                        | clear and colourless | heavy metals (as Pb).....    | max. 0,0010 % |
| insoluble matter.....                              | max. 0,2 %           | iron (Fe).....               | max. 0,001 %  |
| pH (5 %, H <sub>2</sub> O).....                    | 4,2 - 4,5            | lead (Pb).....               | max. 0,0001 % |
| chlorides (Cl).....                                | max. 0,005 %         | magnesium (Mg).....          | max. 0,005 %  |
| fluorides (F).....                                 | max. 0,0010 %        | mercury (Hg).....            | max. 1 ppm    |
| sulphates (SO <sub>4</sub> ).....                  | max. 0,01 %          | nickel (Ni).....             | max. 0,005 %  |
| arsenic (As).....                                  | max. 0,0001 %        | potassium (K).....           | max. 0,005 %  |
| cadmium (Cd).....                                  | max. 1 ppm           | zinc (Zn).....               | max. 0,025 %  |
| calcium (Ca).....                                  | max. 0,005 %         | reducing substances.....     | passes test   |
|                                                    |                      | loss on drying (130 °C)..... | 21,5 - 24,0 % |

## Physical data

- Spec. Density: 1,92 g/cm<sup>3</sup>
- Bulk density: ~ 1000 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 850 g/l
- Melting point: 60 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 4,2 - 4,5

## Transport/storage

- 10°C - 30°C